SuperbMelt®

Text data in this manual, if not noted, is our company's test data.
All information in this manual is for reference only, which is subject to any change without notice.

SuperbMelt®

Gold Testing Machine

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XRF Gold Analyzer Directory

Professional certification bodies certify that our machines are of high quality. We only choose famous brand main electric components for our production. We will respond within 24 hours by sending our professional engineers to solve whatever problems you

SPB-XRA1200

Superbmelt XRF analyzer for jewellery is used for the accurate analysis of precious metal purity, such as gold, silver, platinum and palladium, at an analytical tolerance range of 0.01% to 0.03%.

SPB-XRA2000

The XRF Gold Analyzer can accurately analyze the purity of four precious metals: gold, silver, platinum, palladium etc, analytical tolerance range is 0.01% to 0.3%.It can also test Au, Ag, Pt, Pd, Cu, Ni, Zn, Mo, Ir, Rh, Os, Ru, Cr, Fe, etc, and show over 25 elements at the same time.

SPB-XRA3800

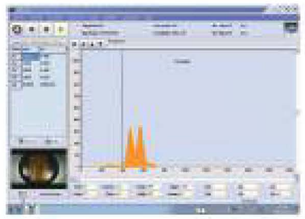
Superbmelt XRF precious metal analyzer XRA3800 is an analyzer best suited for testing and analyzing the elements in metals. The XRF metal analyzer by Superbmelt is also used to determine the conent of metals such as gold, silver, platinum, palladium, Copper, Zinc and so on.

SPB-XRA5000

The handheld XRF analyzer is a non-destructive analytical tool that is used to detect the elements present in materials. It can identify the components of metals and alloys such as gold, silver, stainless steel, cobalt alloys, bronze, zinc, zinc alloy, nickel alloys, tungsten alloys, etc.

SPB-XRA5800

The Superbmelt gold tester gun is specifically designed for performing a nondestructive reading or detection of elements present in materials. It is able to detect elements in solid, liquid and powder form.It can identify elements present in gold, silver, stainless steel, cobalt alloys, bronze, zinc, zinc alloy, nickel alloy, etc.



XRA1200 Gold Analyzer

Advantages and Benefits

- Superbmelt XRF analyzer for jewellery is used for the accurate analysis of precious metal purity, such as gold, silver, platinum and palladium, at an analytical tolerance range of 0.1% （Au≥96%）.
  The process of testing and analysis is very simple. At the start of the
- Superbmelt XRF analyzer for jewellery, just press " measurement start" and testing begins automatically.
- Superbmelt XRF gold tester for sale has an inbuilt controlling computer, which makes the XRF analyzer for jewellery easy to use and transport.
- Superbmelt jewellery spectrometer is also equipped with multilevel safety protection systems that include: Ultra-low-power x-ray tube, fully enclosed testing chamber, automatic x-ray switch off, inner cover with stepped construction, etc.
- Testing and analysis time with the XRF gold tester is very fast, analysis is usually completed within 5 to 60 seconds.
- Superbmelt best XRF analyzer uses a unique optical technology and calculation method that ensures accuracy of results.

Model	SPB-XRA1200
Analysis Range	ppm to 99.99%
Accuracy	0.1% （Au≥96%）
Sample Form	Solid, powder, liquid
Tube Voltage	5KV ~ 50KV
High Voltage Power Supply	0 ~ 50KV
Camera	HD camera
Filters	Selectable customized switches
Detector Type	Si-pin (Amptek, USA) -Multichannel
Analyzer	Multi channel simulation
Sample Chamber Size	380 *380 * 60 (mm)
Test Time	5sec ~ 60sec
Detection Elements Range	Au, Ag, Pt, Pd, Cu.(Zn and Ni will be in Cu; Cd in Ag)
Standard Accessory	Jewelry holder*1, power cable*1, calibration samples*1
Analysis Software	Qualitative and quantitative analysis software
External Dimensions	480 * 480 * 390 (mm)
Weight	38Kg

SPB-XRA1200

As an XRF analyzer manufacturer, Superbmelt has a research and development team that is innovative and ensure all products are high quality to meet all requirements. Contact us today for the best XRF analyzer.

XRA2000 Gold Analyzer

Advantages and Benefits

- The operation is very simple. And it doesn't require the operator to have professional knowledge. The operator just needs to put the sample on the measurement window and click "measurement start" without choosing the working curve or calculate method. Then the intelligent analysis system will report the sample purity automatically.
- The machine(2000) and the controlling computer are combined together, which is simple and concise. Its compact, portable, space-saving, streamline body designs with high quality make it an excellent value of long-life usage and low maintenance. Supporting Wifi allows it to be convenient for us to remote control.
- Using unique design to seal x-ray in the chamber totally, making sure the operators' safety. There are multilevel safety protection systems.
- With small X-ray spot, it can test samples of different size and shape, even when the sample is a pin. It also supplies average function so that customers can be easy to get big sample's results, such as gold bar.
- There is a camera in the analyzer, so customers can see X-ray spot position from computer screen. And it is easy to print report with analysis point photo.

Model	SPB-XRA 2000
Excited Source	Ultra low power X-ray tube, air cooling
Collimator	1-2mm or according to the customer's requirement
X-ray Generator	50kV 1mA
Detector	High resolution detector
Processing Electronics	1.2GB CPU with integrated FPU with 2GB RAM; DPP and MCA
Data Display	High resolution Color QVGA resolution with touch screen; 7 Inch
Data Storage	32GB SDD
Data Transfer	USB interface with many equipment; WIFI
Software	Based on Microsoft Windows system (Win7 and Win8),easy operating only to press "Start" button,then results will be shown on screen. No need more standard samples for calibration.
Analysis Time	5s to 120s
Analytical Tolerance	0.1% (Au≥96%)
Detection Elements Range	Au, Ag, Pt, Pd, Cu. (Zn and Ni will be calculated in Cu; Cd will be calculated in Ag)
Power Supply Mode	AC100V～240V, DC12V(vehicle power supply or Li-ion battery)
Dimensions	40*30*27cm (floor space <2 pieces of A4 paper)
Weight	17Kg
Standard Accessory	Polish kits; Operating pen; DC12V power supply; Manual; CD; Jewelry holder
Optional Accessory	Reference calibration samples; USB micro-printer; Micro-wireless keyboard and mouse; Vehicle power supply DC converter

SPB-XRA2000

The XRF Gold Analyzer is widely used for the analysis of precious metal purity, authenticity and metallization thickness.

XRA3800 Gold Analyzer

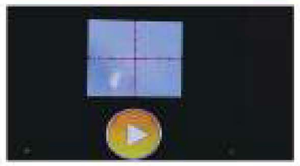
Advantages and Benefits

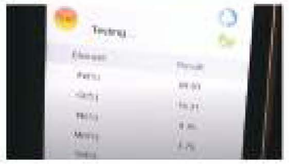
- Completely Intelligent Analysis: The operator just needs to put the samples on the measurement window and click “measurement start” to get result.
- Only one sample is needed for calibration, reducing operation steps and making operation easier
- High Accurate: Analysis results close to fire assay result.
- Rapid Analysis: Only takes several seconds for qualitative analysis, and 1 to 2 minutes for quantitative analysis.
- Superbmelt XRF precious metal analyzer is used for the analysis, detection of elements present in metals, and testing thickness of metal coatings.
- The XRF gold tester by Superbmelt is able to detect elements such as gold, silver, platinum, palladium, iron, copper, nickel, zinc, rhodium, iridium, chromium, and so on.
- After analysis, the Superbmelt XRF precious metal analyzer can display over 25 elements at the same time on the high-resolution screen.
- The excited source is a low power x-ray tube that reduces the chances of precious metal damage during testing and analysis.

Model	SPB-XRA 3800
Analysis Range	ppm to 99.99%
Accuracy	0.03% （Au≥96%）
Sample Form	Solid, powder, liquid
Tube Voltage	5KV ~ 50KV
High Voltage Power	0 ~ 50KV
Camera	HD camera
Filters	Selectable customized switches
Test time	3 SEC ~ 60 SEC
Detector Type	Si-pin (Amptek, USA)
Resolution	145 + 5 ev
External Dimensions	460 * 390 * 360 (mm)
Weight	38Kg
Sample Chamber Size	310 * 270 * 80 (mm)
Relative humidity	< 90%

SPB-XRA3800

At Superbmelt, we are available to take your inquiries and orders. Contact us for the best and cost-effective precious metal analyzer.





XRA5000 Gold Analyzer

Advantages and Benefits

- The handheld XRF analyzer is lightweight and best for performing crucial tasks for any weather condition, field environment and location. Therefore, no need to worry about lifting heaving analyzing equipment to different locations.
- The handheld XRF analyzer saves significant expense and time when compared to traditional laboratory analysis.
- The handheld XRF gold analyzer can detect contaminant metals and elements with little to no sample preparation, therefore providing fast and decisive results.
- The handheld XRF analyzer has a rapid nondestructive detection and quick measurement by simply aiming at the material and able to report results of detection within seconds.
- The large lithium battery is 27000mAh, this is capable of powering the XRF gold analyzer continuously for three days. A built in memory battery can replace the battery power should the main battery go off on site after three days.
- The portable XRF analyzer has an inbuilt 500W pixels high definition camera that can observe the sample's testing position which makes the measurement of elements accurate.

Model	SPB-XRA 5000
Analytical Method	Energy dispersive X ray fluorescence analytical Method
Accuracy	0.03% （Au≥96%）
The detection time	1-60 seconds (a second report results)
A built-in system	GPS, WIFI, Bluetooth
Detection Objective	Solid, liquid, powder
Detector	SDD detector or Fast-SDD detector (optional)
Detector resolution	Minimum can reach 128eV
Video system	500W pixel high resolution camera
Elements Measuring Range	Atomic number from 12 to 92 [elements from magnesium(Mg) to uranium (U)] can be measured
Detection limit	The minimum detection limits at 1 ~ 500 ppm
Instrument dimension	244mm（Length）x 90mm（Width）x 330mm（Height）
Instrument weight	1.7Kg
Operating environmental temperature	-20℃～+50℃
Relative humidity	< 90%

SPB-XRA5000

The handheld XRF gold analyzer can identify the components of metals and alloys such as gold, silver, stainless steel, cobalt alloys, bronze, zinc, zinc alloy, nickel alloys, tungsten alloys, etc.

XRA5800 Gold Analyzer

Advantages and Benefits

- The handheld XRF analyzer is lightweight and best for performing crucial tasks for any weather condition, field environment and location. Therefore, no need to worry about lifting heaving analyzing equipment to different locations.
- The handheld XRF analyzer saves significant expense and time when compared to traditional laboratory analysis.
- The shorter measurement times and superior detection capacity increases your productivity.
- The handheld XRF gold analyzer can detect contaminant metals and elements with little to no sample preparation, therefore providing fast and decisive results.
- The handheld XRF analyzer has a rapid nondestructive detection and quick measurement by simply aiming at the material and able to report results of detection within seconds.
- The large lithium battery is 27000mAh, this is capable of powering the XRF gold analyzer continuously for three days. A built in memory battery can replace the battery power should the main battery go off on site after three days.

Model	SPB-XRA 5800
Accuracy	0.03% （Au≥96%）
Sample form	Solid, powder, liquid
High voltage power supply	0 ~ 50 kv
Light control current	0 mu A ~ 100 mu A
Detector type	Sipin
Resolution of Si – pin	≤180 eV
Multichannel analyzer	Multichannel analyzer DMCP
Test time	3 SEC ~ 30 SEC
Measuring element	Measuring elements from sodium (Na) to uranium (U) between all the 72 elements
Analysis Software	KEYRAY qualitative and quantitative analysis software
Shape size	290 * 230 * 90 (mm)
Weight	1.58Kg (with battery)
Ambient temperature	-5 ° C ~ 45 ° C
Relative humidity	< 90%

SPB-XRA5800

The Superbmelt gold tester gun is specifically designed for performing a nondestructive reading or detection of elements present in materials. It is able to detect elements in solid, liquid and powder form.